

Claims

1. A recording device control apparatus that successively receives transfer requests and controls transfer of data relating
5 to the transfer requests to and from a recording device, each transfer request including (i) area information that shows an area that is a transfer destination or a transfer source in the recording device and (ii) type information for specifying a transfer data type, the recording device control apparatus comprising:

10 a reception unit operable to receive the transfer requests; a transfer request specification unit operable to perform transfer criterion judgment processing and same-area judgment processing with respect to each of specification target requests which are received transfer requests whose related data has not been transferred, and, when a targeted transfer request fulfills a condition of a negative judgment result in both of the processing, specify the related data of the targeted transfer request as a transfer target,

the transfer criterion judgment processing being for judging whether or not the targeted transfer request is a transfer-withhold target, based on a predetermined transfer criterion that defines a transfer order for the targeted transfer request and one or more transfer requests having different type information to the targeted transfer request, and

25 the same-area judgment processing being for judging whether or not a transfer request that has area information identical to area information included in the targeted transfer request was received before the targeted transfer request was received; and

a transfer unit operable to transfer the data specified by the transfer request specification unit.

2. The recording device control apparatus of Claim 1, wherein
 - 5 the recording device control apparatus has, in the recording device, a management area for storing management information that is for managing data locations in the recording device,
 - 10 the transfer request specification unit further performs request judgment processing which is for, when the targeted transfer request is a transfer request with respect to the management area, judging whether or not a transfer request having identical type information to the targeted transfer request was received before the targeted transfer request was received, and
 - 15 when the targeted transfer request fulfills the condition and, in addition, a judgment result of the request judgment processing is negative, the transfer request specification unit specifies transfer data relating to the transfer request as data to be transferred.
 - 20 3. The recording device control unit of Claim 2, wherein
 - 15 the transfer request specification unit further performs specification exclusion processing when the targeted transfer request, having fulfilled the condition and the judgment result of the request judgment processing being negative, is with respect to management information, and, in addition, when a transfer request that has not been transferred and is with respect to the management area was received after the targeted transfer request was received, the specification exclusion processing being for excluding the targeted transfer request

from being a specification target request without specifying the targeted transfer request as a transfer target.

4. The recording device control apparatus of Claim 3, wherein
5 the reception unit further receives an omission instruction
that instructs that transfer of redundant management information
is to be omitted, and

 the transfer request specification unit performs the
specification exclusion processing only when the reception unit has
10 received the omission instruction.

5. The recording device control unit of Claim 1, wherein
 the predetermined criterion is predetermined priority levels
that show a transfer order for transfer data according to the type
15 information, and

 the transfer criterion judgment processing is for judging that
the targeted transfer request is a transfer-withhold target when
a priority level of a transfer request that includes different type
information to the type information of the processing-target transfer
20 request is higher than the priority level of the processing-target
transfer request.

6. A recording device control method for successively receiving
transfer requests and controlling transfer of data relating to the
25 transfer requests to and from a recording device, each transfer request
including (i) area information that shows an area that is a transfer
destination or a transfer source in the recording device and (ii)
type information for specifying a transfer data type, the recording

device control method comprising:

a reception step of receiving the transfer requests;

a transfer request specification step of performing transfer criterion judgment processing and same-area judgment processing with respect to each of specification target requests which are received transfer requests whose related data has not been transferred, and, when a targeted transfer request fulfills a condition of a negative judgment result in both of the processing, specifying the related data of the targeted transfer request as a transfer target,

10 the transfer criterion judgment processing being for judging whether or not the targeted transfer request is a transfer-withhold target, based on a predetermined transfer criterion that defines a transfer order for the targeted transfer request and one or more transfer requests having different type information to the targeted

15 transfer request, and

the same-area judgment processing being for judging whether or not a transfer request that has area information identical to area information included in the targeted transfer request was received before the targeted transfer request was received; and

20 a transfer step of transferring the data specified by the transfer request specification unit.

7. A computer program for causing an apparatus that has a CPU to control transfer of data relating to transfer requests with respect

25 to a recording device, the computer program comprising:

a reception step of receiving the transfer requests;

a transfer request specification step of performing transfer criterion judgment processing and same-area judgment processing with

respect to each of specification target requests which are received transfer requests whose related data has not been transferred, and, when a targeted transfer request fulfills a condition of a negative judgment result in both of the processing, specifying the related

5 data of the targeted transfer request as a transfer target,

the transfer criterion judgment processing being for judging whether or not the targeted transfer request is a transfer-withhold target, based on a predetermined transfer criterion that defines a transfer order for the targeted transfer request and one or more

10 transfer requests having different type information to the targeted transfer request, and

the same-area judgment processing being for judging whether or not a transfer request that has area information identical to area information included in the targeted transfer request was

15 received before the targeted transfer request was received; and

a transfer step of transferring the data specified by the transfer request specification unit.